



Ministry of
Northern Development
and Mines

Séan Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 425

HUDSON TOWNSHIP

DISTRICT OF TIMISKAMING

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP

Scale: 1:1 013 760 or 1 inch=16 miles

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ACCOMPANYING MAPS

Property Location Map - 1 Map

Exploration Data Map - 1 Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	Multiplied by	Gives	Imperial Unit	Multiplied by	Gives
LENGTH					
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
AREA					
1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
MASS					
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 9 volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	Yes	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM - OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	No	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.
24	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

Δ anh. Anhydrite	Δ fu. Fuchsite	▲ Ni. Nickel	Δ st. Stone
Δ ank. Ankerite	▲ gn. Galena	Δ Nb. Niobium	▲ talc. Talc
Δ anna. Annabergite	Δ gt. Garnet	Δ Pd. Palladium	Δ Te. Tellurium
Δ ap. Apatite	Δ gos. Goethite	Δ peat. Peat	Δ td. Tetrahedrite
▲ arg. Argentite	▲ Au. Gold	Δ pent. Pentlandite	Δ th. Thorite
Δ As. Arsenic	Δ gf. Graphite	Δ Pt. Platinum	Δ Th. Thorium
Δ asp. Arsenopyrite	Δ gl. Gravel	▲ py. Pyrite	Δ thuc. Thucholite
Δ asb. Asbestos	Δ gyp. Gypsum	Δ pyl. Pyrochlore	Δ ti. Titanite
Δ ba. Barite	▲ hem. Hematite	Δ pyrl. Pyrolusite	Δ Ti. Titanium
Δ be. Beryl	Δ il. Ilmenite	▲ po. Pyrrhotite	Δ tour. Tourmaline
Δ Bi. Bismuth	Δ Fe. Iron	Δ q. Quartz	Δ trap. Trap rock
Δ bn. Bornite	Δ IF. Iron Formation	Δ qcv. Quartz carbonate vein	Δ W. Tungsten
Δ bran. Brannerite	▲ jas. Jasper	Δ ra. Radioactive minerals	Δ uran. Uraninite
Δ bruc. Brucite	Δ kaol. Kaolinite (kaolin)	Δ RE. Rare Earths	▲ U. Uranium
Δ Cd. Cadmium	Δ ky. Kyanite	Δ sd. Sand	Δ verm. Vermiculite
Δ calc. Calcite	Δ Pb. Lead	Δ sgl. Sand and gravel	Δ Y. Yttrium
Δ carb. Carbonate	Δ lim. Limonite	Δ ss. Sandstone	Δ Zn. Zinc
Δ cel. Celestite	Δ Li. Lithium	Δ scap. Scapolite	Δ zr. Zircon
Δ cc. Chalcocite	Δ mgst. Magnesite	Δ shea. Scheelite	
▲ cp. Chalcopyrite	Δ mag. Magnetite	Δ serp. Serpentine	
▲ ch. Chert	▲ mc. Malachite	Δ sh. Shale	
Δ clay. Clay	Δ Mn. Manganese	Δ sid. Siderite	
▲ Co. Cobalt	Δ mb. Marble	Δ si. Silica	
Δ cob. Cobaltite	Δ mar. Marcasite	▲ Ag. Silver	
Δ cb. Columbite	Δ ma. Marl	Δ sl. Slate	
▲ Cu. Copper	▲ mi. Mica	Δ sm. Smaltite	
Δ cor. Corundum	Δ ml. Millerite	Δ sod. Sodalite	
Δ dol. Dolomite	Δ mo. Molybdenite	Δ spec. Specularite	
Δ ep. Epidote	Δ Mo. Molybdenum	▲ sp. Sphalerite	
Δ ery. Erythrite	Δ mon. Monazite	Δ spd. Spodumene	
Δ fel. Feldspar	Δ ne. Nephelite (nepheline)	Δ staur. Staurolite	
Δ fl. Fluorite (fluorspar)	Δ nc. Niccolite	Δ stib. Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps. or listed in Drillhole Summary.

MINERAL OCCURRENCES					Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	
A.	Colebucke	Ag-Major	T-0259		OGS, 1976, GR 144, pp.23-24 OGS, 1974, Map 2300, Kerns & Hudson Township Hudson Township AF Colebucke Mines Ltd.
B.	Milberta Creek	Cu-Major Ni, Co- Minor	T-0261		OGS, 1976, GR 144, p.24 OGS, 1974, Map 2300, Kerns & Hudson Township
C.	Spencer, W.A. (Hammerstrom, W.)	U-Major Cu-Minor	T-0258	NMI- 31M/12, U1, Cul MRC9, pp.91-92 MDC 25, p.136 MDC 12, p.378 SMI #000326	OGS, 1966, MP5, pp.38-39 OGS, 1972, Map p.786-Marginal Notes OGS, 1974, Map 2300, Kerns & Hudson Township OGS, 1977, MP 71, p.77-94 Hudson Township AF. Spencer, W.A. Armstrong, Ray Hammerstrom, W.
D.	Lot 2, Conc. 1	cp, mc minor			OGS, 1972, Map p.786

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.															
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY
COMPANY/AUTHOR (file number)																	
1	Big Six Mr. Pitts & Mr. McCosh (1906) Hudson Twp. AF, R. Thomson's Notes			?				50 ?									
2	Armstrong, Roy			69 72 74													
3	Colebucke Mines Ltd.	49			49	49							49				
4	Lindquist, E.			69													
5	Spencer, W.A. 1949 Hudson, Lundy, Kerns & Henwood Township			49	49 ¹	50 ?											
6	McRae Hudson Twp. AF, Thomsons Notes						14- 18?	61									
7	Scott, William P. (1985)																

[illegible]

DRILLHOLE SUMMARY		Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREE	Initial Dip of Hole DEGREE	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number										
1a	Colebucke Mines Ltd.	CX-1	1949	130	-45	3	33	py, ch	Ag, Co	
b		CX-2	1949	175	-25	3.5	18.7	cp, py	Au, Ag	
c		CX-3	1949	130	-60	3	35.1	py, mi, arg	Ag	
d		CX-4	1949	175	-45	11	40.8	cp, py, po	Au, Ag	
e		CX-5								
f		CX-6	1949	175	-45	4.3	74.7	cp, po, py	Au, Ag	
g		CX-7	1949	180	-45	2.2	80.5		Ag	
h		MX-8	1949	204	-44	3	118.5	py, cp, talc	Ag	
i		MX-9	1949	044	-39	5.5	88.7	jas, cp, py, talc, hem	Au, Ag	
j		MX-10	1949	180	-40	2.5	84		Au, Ag	
2a	Colebucke Mines Ltd.	MX-11	1949		-45	1.5	26	sp	Ag	
b		MX-12	1949	045	-45	1.5	127.7	gn, py, chert cp, hem, talc	Au, Ag	
3	Colebucke Mines Ltd.	MX-13	1949	170	-45	3.5	116.8	py	Ag	

DRILLHOLE SUMMARY		Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREE	Initial Dip of Hole DEGREE	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number										
4a	Colebucke Mines Ltd.	MX-14	1949	325	-34	5.5	146.4	ZnS, cp, py	Ag	
b		MX-15	1949	325	-45	5.5	74.7	ZnS, py, gn, cp, po	Au, Ag	
c		MX-16	1949	325	-45	3	89.5	py, ZnS		
d		MX-17	1949	145	-44	2.5	51.5	gn, ZnS, cp, po	Ag	
e		MX-18	1949	325	-43	4		po, ZnS, cp, gn, po	Ag	

AIRBORNE GEOPHYSICAL SURVEY DATA			Flight Line Altitude	Flight Line Direction	Flight Line Spacing
No.	By For	Type of Survey			
	No data available as of July 2, 1987				

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data available as of July 2, 1987			

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of July 2, 1987			

LANDSAT COLOUR PHOTO NTS 31/M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C ₁	136/10

On File in Cobalt Office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

No data available as of July 2, 1987

ODM GENERAL INDEX SEARCH

Words searched: Armstrong, Roy
 Bix Six Mine
 Colebucke Mines Ltd.
 Hammond Lake
 Hillview
 Hudfir Lake
 Hudson Township

Lindquist, E.
 McCosh, Donald J.
 McRae
 Milberta Creek
 Pitts, Mr.
 Spencer, W.A.
 Twin Lake

Index Volume	Listing:	Report Volume	Part	Page
1	Hudson Twp., Timiskaming Conglomerate Iron Malachite Minerals Niccolite Soil W. of, agricultural McCosh, Donald J.	*14 *14 *16 *19 *16 *15 *14 *N.O. ¹ *15	2 2 2 2 1 1 2 1	46 30 31 58 54 44 51 90 44
2	Hudson Twp., Timiskaming Diabase See also map 31b with Twin Lake, Hudson & Firstbrook Twp. Rocks, See map 31b with	*31 *31 *31	3 3 3	7,8
3	Colebucke Mines Ltd. Incorporated	57	1	46
8	Hudson, Dymond, Kerns & Harley Twp., Timiskaming District Summary of Field Work, 1970, by H.L.Lovell Hudson Twp., Timiskaming District Copper Uranium Spencer, W. Occurrence Hudson Twp., Timiskaming District Mining property, report on Spencer, W.A. Hudson Twp., Timiskaming District	MP 43 MP 5 MP 5 MRC 9 MRC 9 MP 5	 91-92	80-81 38 38-39 91-92 91-92 38

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Spencer Copper Occurrence Hudson Twp., Timiskaming District Mining Property, Report on	MP 5		38
	Spencer Uranium Occurrence Hudson Twp., Timiskaming District Mining Property, Report on	MP 5		38-39
	Colebucke Mines Ltd. Hudson Twp., Timiskaming District Report on Property	GR 144		23-24
	Hammond Lake See Twin Lakes			
	Hudson Twp., Timiskaming District Geology of The New Lisdeard Area	GR 144		
	Silver/Copper	GR 144		24
	Uranium	MP 71		85
	Lindquist Occurrence Hudson Twp., Timiskaming District Report on Property	GR 144		24
	Milberta Creek Occurrence Hudson Twp., Timiskaming District Report on Property	GR 144		24
	Spencer, W.A. Hudson Twp., Timiskaming District	GR 144		24
	Spencer Occurrence Hudson Twp., Timiskaming District Report on Property	GR 144		24

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
	Twin Lakes Hudson Twp., Timiskaming District *Out of Print 1. N.O. - Report of the Survey and Exploration of Northern Ontario, 1900.	GR 144		15,17

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		REGIONAL GEOLOGICAL COMPILATION MAPS			
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury, Timiskaming District Ontario, Geological Compilation Series		ODM Map 2046	1:253 440
Card, K.D. et al	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario		ODMNA Map 2188	1:253 440
Pyke, D.R., Ayres, L.D., Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury and Timiskaming District, Ontario		OGS Map 2205	1:253 440
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince		OGS Map 2484	1:500 000
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East Central Ontario, All Isotopic Systems		OGS Map p.2842	1:1 013 760
		GEOPHYSICAL MAPS			
	1965	Cobalt, Ontario-Quebec, NTS 31M/5		GSC Map 1492G	1:63 360
	1965	New Liskeard, Ontario-Quebec NTS 31M/12		GSC Map 1493G	1:63 360
	1978	Airborne Gamma-Ray Spectrometry Maps and Profiles		OGS Maps P.80411-80425	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, Districts of Timiskaming, Nipissing and Sudbury		OGS P.2296	1:100 000

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
Gupta, V.K., Grant, F.S., Boud, A.	1981	<u>GEOPHYSICAL MAPS</u> A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No.26 pp.160-164
	1981	Magnetic Anomaly Map, Timiskaming- Kapuskaing Region	GSC Map 1563A	1:1 000 000
	1982	Gravity and Aeromagnetic Studies in North- Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106	No.24 pp.165-167
Mansinha, L. Wilkinson, D.A.	1983	Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No.109	OGS OFR 5440	
GSC	1984	Sudbury, Ontario and Quebec, IMW NL 16/17, Magnetic Anomaly Map	GSC Map NL16/17 M	1:1 000 000
Gupta, V.K.	1985	Cobalt Embayment Interpretation: Depth to Basement and Distribution of Nipissing Diabase from Aeromagnetics; in Summary of Field Work and other Activities, 1985, Ontario Geological Survey, edited by John Wood, Owen L. White, R.B. Barlow and A.C. Colvine	OGS MP 126	p.178-181
		Aeromagnetic Map Earth Physics Branch Gravity Map Series	GSC Map 70756 EPB Maps No.84, 134	1:253 440 1:500 000

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>SURFICIAL, PLEISTOCENE, TERRAIN, ENGINEERING</u>			
	1951	New Liskeard Ontario, topographic		NTS 31M/NW	1:126 720
	1951	Haileybury, Ontario, topographic		NTS 31M/SW	1:126 720
	1956	Cobalt		NTS 31M/5, 31M/SE, 31M/SW	1:50 000
	1976	Ville-Marie, Quebec-Ontario, topographic		NTS 31M	1:250 000
Roed, M.A., Hallett, D.R.,	1979	New Liskeard, NTS 31M/NW		NOEGTS 84	
	1979	Data Base Map		OGS Map 5021	1:100 000
	1980	NOEGTS Sand & Gravel Resident Map		OGS Map 5025	1:100 000
Vincent, J.S. ., Hardy, L.	1979	The Evolution of Glacial Lakes Barlow and Ojibway, Quebec and Ontario		GSC Bulletin 316	
	1979	New Liskeard Quaternary		ODM Map P.2291	1:50 000
Morton, J.D., King, R.C.F.	1979	Quaternary Geology, New Liskeard Area, NTS 31M/12, Timiskaming District, Ontario		OGS Map P.2291	1:50 000
	1982	Ontario Basic Maps		OBM Maps 20 17 5800 52600 20 17 5900 52600	1:20 000
	1983	New Liskeard, Ontario, topographic Hudson Township Claim Maps		NTS 31M/12 MNR Plan No. M-508	1:50 000 1"=40 Ch.
		<u>MINERAL POTENTIAL</u>			
Reid, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario		ODM Bulletin 134	

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Springer, J.	1977	<u>MINERAL POTENTIAL</u> Ontario Mineral Potential Map, Gogama Sheet and part of Ville Marie Sheet, District of Sudbury and Timiskaming		OGS Map p.1514	1:250 000
		<u>GEOCHEMICAL</u> Geochemical prospecting research in 1966, Cobalt Area, Ontario			
		Research in Geochemical Prospecting Methods for Native Silver Deposits, Cobalt Area, Ontario, 1966			
		Geochemical and Biogeochemical Exploration Methods of Research in the Cobalt Area, Ontario			
		Alteration and Mineralization in Archean Volcanic Rocks of the Cobalt Area; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey			
Boyle, R.W.	1966			GSC Paper 66-46	15p.
Boyle, R.W. et al	1969			GSC Paper 67-35	91p.
Hornbrook, E.H.W.	1972			GSC Paper 71-32	45p.
Dillon-Leitch, H.	1980			OGS MP 96	No. S25 pp.191-194
Barlow, A.E.	1899	<u>GEOLOGICAL REPORTS AND MAPS</u> Report on the Geology and Natural Resources of the Area included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing Ontario and the County of Pontiac, Quebec		*GSC Annual Report X, Pt.I *GSC Map 599	
Bell, R.	1906	The Cobalt Mining District, Ontario		*GSC Summary Report, 1905	pp.94-105

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Bell, R. Parks, W.A. Barlow, A.E.	1907	<u>GEOLOGICAL REPORTS AND MAPS</u>			pp.110-112
	1908	Cobalt District and Northward		*GSC Summary Report, 1906	
	1908	The Geology of a District from Lake Timiskaming Northward		*GSC Annual Report, 1904, Volume XVI, pt.A	pp.198-225
Brock, R.W.	1908	Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets		*GSC Separate Report 962	
	1909	The Huronian Conglomerate of the Cobalt District		*GSC Map 944	1:63 360
	1913	Map of Sudbury-Cobalt-Porcupine Region, Ontario		*GSC Summary Report, 1908	pp. 12-13
Burrows, A.G., Knight, C.W. Burrow, A.G., Hopkins, P.E.	1922	Blanche River Area, Timiskaming District, Ontario		OBM Map 22h	1:506 880
	1922	Blanche River Area, Timiskaming District, Ontario		*ODM AR 31, pt.3	
	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ontario		*ODM Map 31b	1:63 360
Roscoe, S.M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield		ODM Map P. 159	1:126 720
	1970	Lake Timiskaming Rift Valley, Ontario		GSC Paper 68-40	205p.
	1972	Paleozoic Formations and Silurian Biostratigraphy, Lake Timiskaming Region, Ontario and Quebec		ODM MP 39	
Lovell, H.L., Caine, T.W. Bolton, T.E., Copeland, M.J.				GSC Paper 72-15	pp.1-49

SELECTED REFERENCES			Map Scales and/or Report Pages
Author	Date	Title	
Lovell, H.L., Frey, E.D., Caine, T.W. Lovell, H.L., Frey, E.D. Lovell, H.L., Frey, E.D. Lovell, H.L., Frey, E.D. Wood, J.	1972	<u>GEOLOGICAL REPORTS AND MAPS</u> Hudson Township, Timiskaming District, Ontario	1:15 840
	1972	Geology of the New Liskeard Area Timiskaming District, Ontario	
	1974	Kerns & Hudson Townships, Timiskaming District, Ontario	1:31 680
	1976	Geology of the New Liskeard Area, NTS 31M/5+ 12, Timiskaming Districts, Ontario	
	1979	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	No. S18 pp.79-81
	1980	Geology of the Firstbrook Lake Area, NTS 31M/5NW, Timiskaming District, Ontario	
	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing & Timiskaming; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario	No. 14 pp.61-63
	1981	Shining Tree Area, Districts of Sudbury & Timiskaming	67p.
	1981	Reconnaissance of the Lorrain Formation, Northern Cobalt Embayment; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey.	67p.
Johns, G.W. Wood, J.			
Carter, M.W. Colvine, A.C.			

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>GEOLOGICAL REPORTS AND MAPS</u>			
Russell, D.J.	1981	The Geology of the Paleozoic Outliers on the Canadian Shield; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey		OGS MP 100	No.23 pp.117-120
Donaldson, J.A. et al	1984	Grant No.173, Sedimentary Rocks and Stratabound Mineralization in the Cobalt Region; In Geoscience Research Grant Program, Summary of Research 1983-1984, edited by V.G. Milne, Ontario Geological Survey		OGS MP 121	pp.198-210
Hunter & Association Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area		OGS OFR 5486 Volume 1,2,3	
H.G.E. Inc.	1984	Pre-Engineering Feasibility Study Limestone Crushing Facility in Northern Ontario		OGS OFR 5523	40p.
Johns, G.W.	1985	Geology of the Firstbrook and Parts of Surrounding Townships Area, accompanied by		OGS Report 237	58p.
Johns, G.W., Van Steenburgh, R.	1985	Firstbrook and Parts of Surrounding Township, Timiskaming District, Ontario		OGS Map 2474	1:31 680
		<u>JOURNAL ARTICLES, THESES, TECHNICAL REPORTS</u>			
Hume, G.S.	1920	Stratigraphic and Geologic Relations of the Paleozoic Outlier of Lake Timiskaming, Ontario		PHD Thesis, Yale University	
		*Out of Print			

Author	Date	SELECTED REFERENCES Title	Reference	Map Scales and/or Report Pages

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No. present producers.

AIR PHOTOS - on file in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm.1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958, and 1970.

Year	Roll	Strip	Photo
1946	208	107	113-119
	208	108	111-117
	208	109	109-115
	219	110	16-24
	208	110	20-27
	206	111	45-51
1958	17	4721	281-288
1959	21	4722	99-106
	20	4721	153-159
	20	4720	175-181
1970	25	4724	100-107
	23	4723	189-195
	44	4723	169-175
	23	4722	163-169
	44	4721	202-210
1977	1	4724	101-108
	45	4723	106-112
	45	4722	66-74
	45	4721	22-29
1978	14	4725	22-29
	14	4724	67-74
	14	4723	112-119
	07	4722	23-30

Air Photos on file in Cobalt, on next page.

NOTES AND ADDENDA

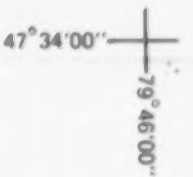
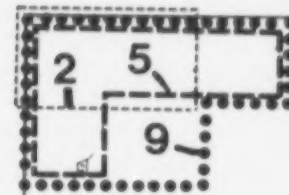
AIR PHOTOS - on file in Cobalt

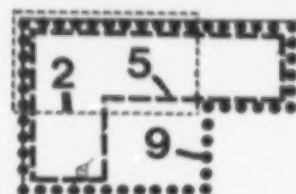
Year	Roll	Strip	Photo
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	208	109	111-115
	219	109-110	18-23
	208	110	20-26
	206	111	45-50
1959	20	4720	74-80
	20	4721	152-158
1958R	121	4721	281-287
1959	21	4722	99-105

LUNDY

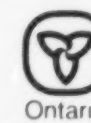
KERNS

DYMOND





KERNS



Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 425

(Map 1 of 2)

HUDSON TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

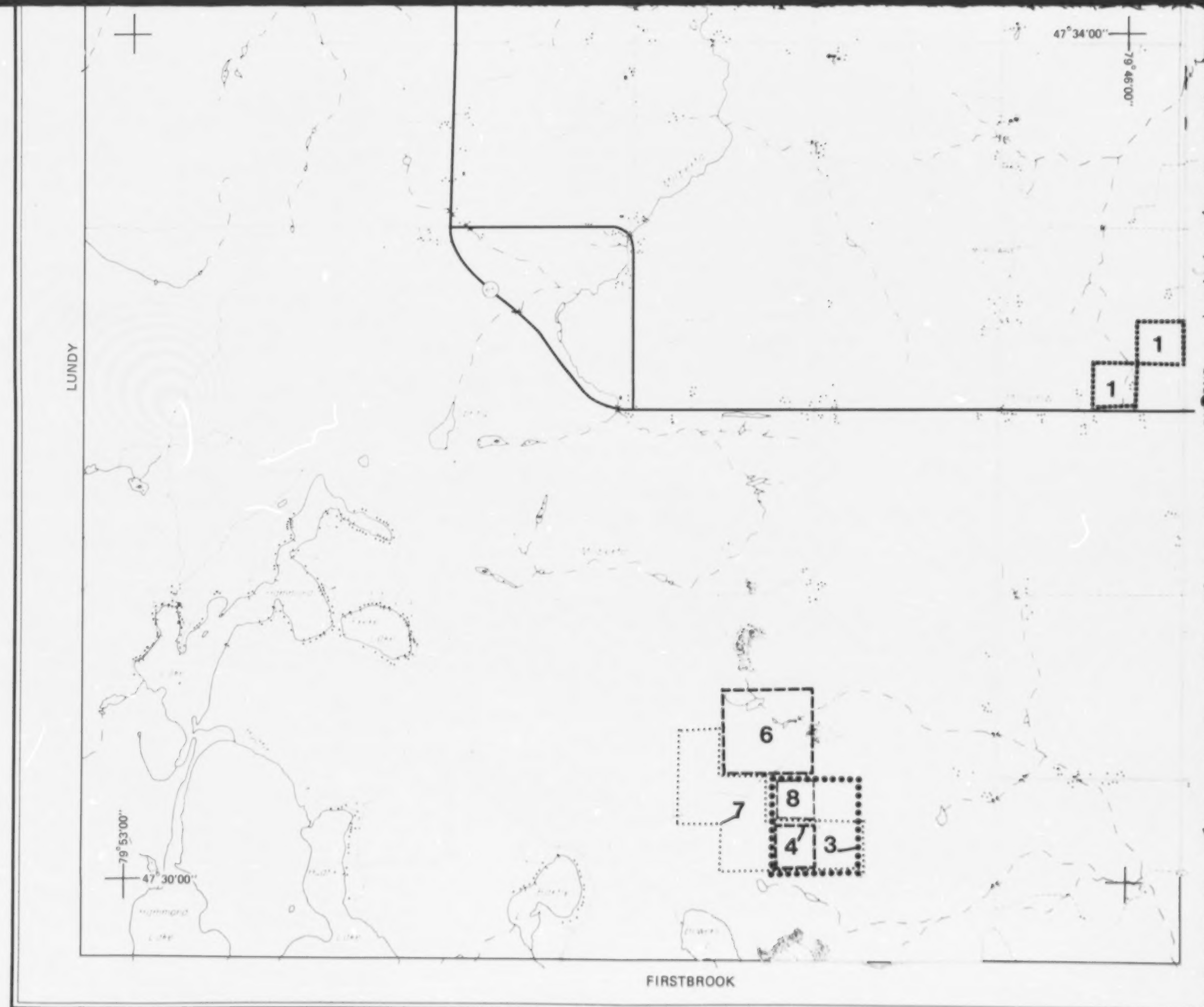
Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

47° 34' 00"
79° 46' 00"



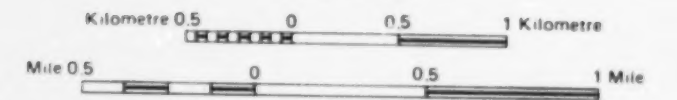
EXPLORATION DATA FILE AREAS



HUDSON TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

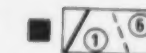


LUNDY

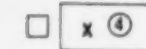
DYMOND

FIRSTBROOK

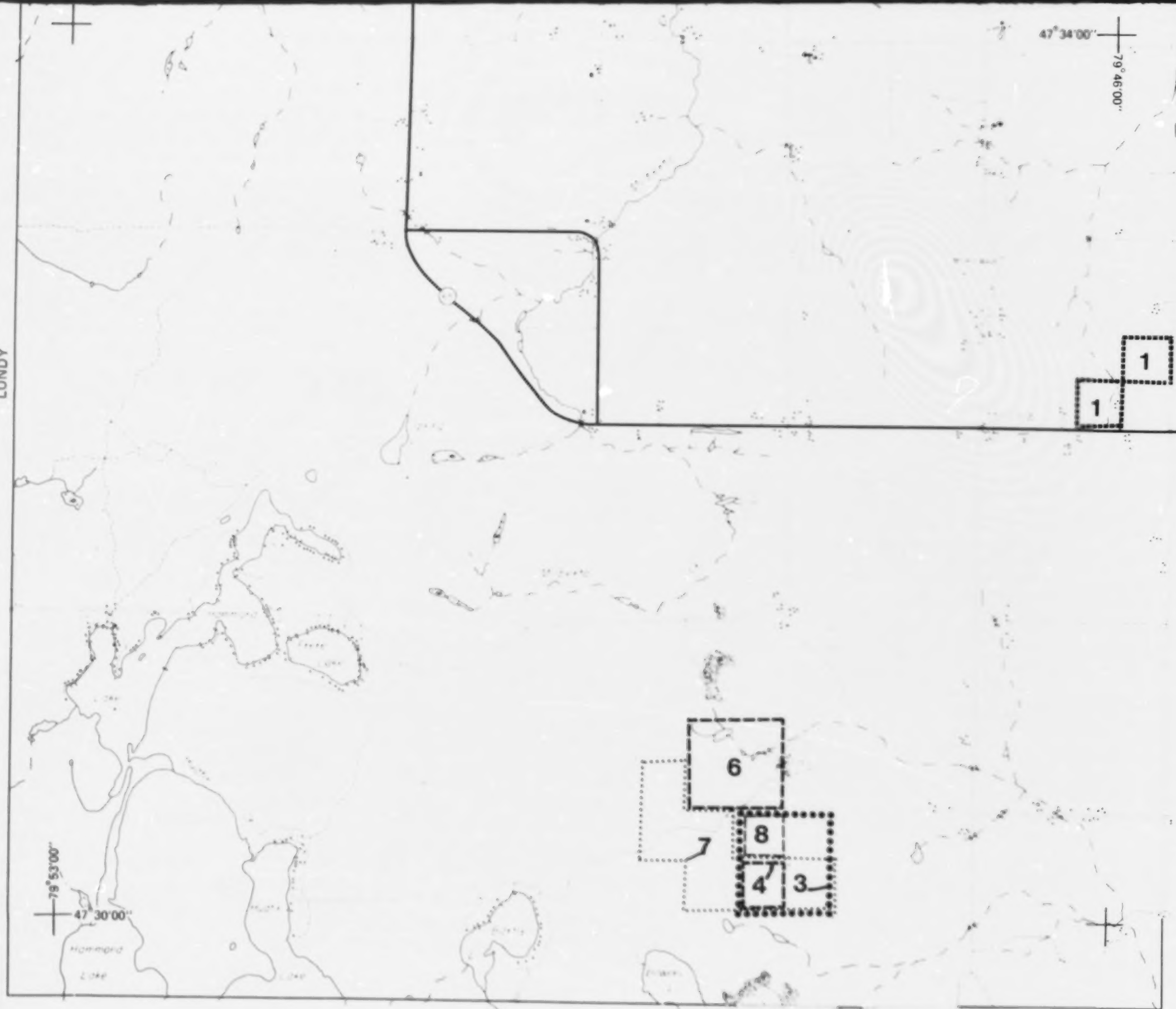
EXPLORATION DATA FILE AREAS



Reference number is always inside work area outlined.
See listing in text pages.



Small area exploration.



TYPES OF DATA SHOWN ON THIS MAP



GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number



GEOPHYSICAL ANOMALIES

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
- ☐ Airborne radiometric anomaly
- ☐ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop;
VLF - Very low freq; Turam; JEM -
Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly
(total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly

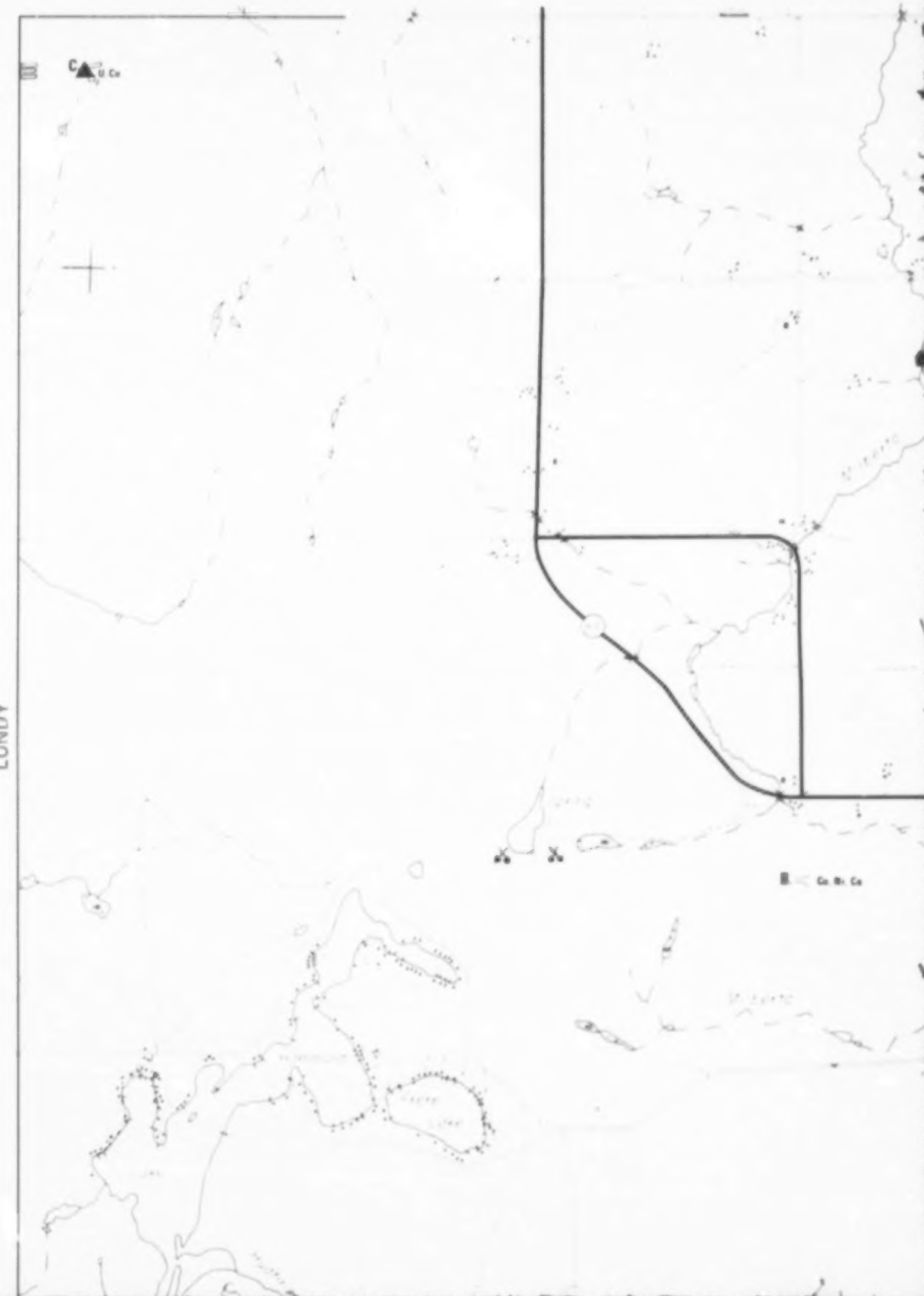


MISCELLANEOUS DATA

- ☐ Trenching pit
- ☐ Rock quarry

LUNDY

KERNS





Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

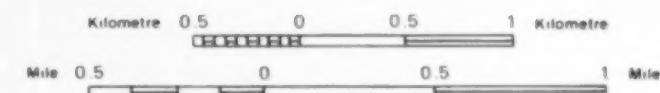
GEOLOGICAL DATA INVENTORY FOLIO 425

(Map 2 of 2)

HUDSON TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number

☐  Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐  Airborne magnetic anomaly
- ☐  Airborne electromagnetic anomaly
Length of anomaly along flight line
- ☐  Airborne electromagnetic anomaly
Location of anomaly along flight line
- ☐  Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
- ☐  Airborne radiometric anomaly
- ☐  Ground magnetic anomaly
- ☐  Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop;
VLF - Very low freq; Turam; JEM -
Crone Em - 16)
- ☐  Ground radiometric anomaly
- ☐  Induced polarization anomaly
- ☐  Self potential anomaly
- ☐  Audio-frequency magnetic anomaly
(total intensity)
- ☐  Resistivity anomaly
- ☐  Gravity anomaly

MISCELLANEOUS DATA

- ☐  Trenching pit
- ☐  Adit
- ☐  Open pit
- ☐  Rock quarry
- ☐  Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

LUNDY

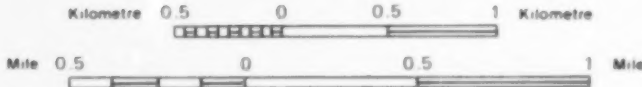


FIRSTBR

HUDSON TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number



FIRSTBROOK